Lab ID	:	
Customer	:	
Address	:	
Project Name	:	
Agency	:	
Customer Reference	:	
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	
Sample ID No	:	
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Type I Min Table 400.1.1 MORTH (5th Revision)
53	0	0	0.0	100.0	100
45	600	600	5.6	94.4	95-100
22.4	2000	2600	23.6	76.3	60-80
11.2	2700	5300	48.1	51.8	40-60
4.75	1700	6900	62.7	36.3	25-40
2.36	1200	8000	72.7	27.3	15-30
0.6	100	8100	73.6	26.4	8-22
0.075	1500	9600	87.3	12.7	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Date: 25-08-18

Lab ID	:	**CP-RW-2018-08-23-08**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No.14 Bagalagunte
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-08/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	23-08-18

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	307.0	307.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	86.0	71.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	220.7	235.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	28.0	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	25.6	

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Certificate No. : TC- 5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 25-08-18

Lab ID	:	CP-RW-2018-08-23-08
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No.14 Bagalagunte
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 50th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-08/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	23-08-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	17.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	16.8%	
Combined Flakiness and Elongation Index for WMM	34.1%	

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Format No. CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	CP-RW-2018-08-27-07	**Date: 28-08-18**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore	
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No.14 Bagalagunte	
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 50th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010	
Customer's Reference	:	BBMP/EE/DD/WO/76/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-08-18	
Sample ID No	:	2018-08-27-07/01	
Sample Type	:	Bitumen	
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)	
Date of test	:	27-08-18	

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	68	60 to 70
2	Softening Point, °C	43.8	Min. 40°C
3	Ductility, cm	97	Min. 75cm
4	Flash point, °C	228	Min. 220°C
	Fire point, °C	248	

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-08-30-02** **Date: 01-09-18**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No.14 Bagalagunte
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-18
Sample ID No	:	2018-08-30-02/01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		30-08-18
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	CP-RW-2018-08-30-01 Date: 02-09-18
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No 14 Bagalagunte
Agency	:	Technical Manager West, K R I D L, Project Implementation Unit, No 280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/TE/DD/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-18
Sample ID No	:	2018-08-30-02/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	30-08-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	: **CPRW-2018-08-30-02**	**Date: 02-09-18**
Customer	: Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore	
Address	: T.Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	: Improvements to roads and drains at between 5th main & 6th cross roads Manjunatha Nagara in Ward No.14 Bagalagunte	
Agency	: Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 39th Cross, 17th C Main road, 3rd V Block, Rajajinagar, Bangalore-560010	
Customer Reference	: BBMP/EE/TDS/WO/76/2017-18	
Source of Sample	: Sample supplied by Agency	
Sample Condition	: Satisfactory	
Date of Receipt	: 30-08-18	
Sample ID No	: 2018-08-30-02/01	
Type of Mix	: BM(Bitumenous Macadam)	
Date of test	: 30-08-18	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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